

ENTERED
See p. 6



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,966

DATE: 08/06/2002

TIME: 14:10:11

Input Set : A:\216180.ST25.txt

Output Set: N:\CRF3\08062002\J088966.raw

3 <110> APPLICANT: BioteCon Diagnostics GmbH
 5 <120> TITLE OF INVENTION: Nucleic acid molecules for the detection of bacteria
 6 and phylogenetic units of bacteria
 8 <130> FILE REFERENCE: 216180
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/088,966
 11 <141> CURRENT FILING DATE: 2002-03-22
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP00/08813
 14 <151> PRIOR FILING DATE: 2000-09-08
 16 <150> PRIOR APPLICATION NUMBER: DE 19945916.9
 17 <151> PRIOR FILING DATE: 1999-09-24
 19 <160> NUMBER OF SEQ ID NOS: 530
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 3118
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Escherichia coli
 28 <400> SEQUENCE: 1
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 30 ctaatctgcg ataagcgtcg gtaaggtgat atgaaccggt ataaccggcg atttccgaat 120
 31 ggggaaaccc agtgtgtttc gacacactat cattaactga atccataggt taatgaggcg 180
 32 aaccggggga actgaaacat ctaagtaccc cgaggaaaag aaatcaaccg agattccccc 240
 33 agtagcggcg agcgaacggg gagcagccca gagcctgaat cagtgtgtgt gttagtggaa 300
 34 gcgtctggaa aggcgtgcga tacagggtga cagccccgta cacaaaaatg cacatgctgt 360
 35 gagctcgatg agtagggcgg gacacgtggt atcctgtctg aatatggggg gaccatc 420
 36 caaggctaaa tactcctgac tgaccgatag tgaaccagta ccgtgaggga aaqr 480
 37 gaaccccggc gaggggagtg aaaaagaacc tgaaaccgtg tacgtacaag cagt 540
 38 acgcttaggc gtgtgactgc gtaccttttg tataatgggt cagcgactta tattctgtag 600
 39 caagggttaac cgaatagggg agccgaaggg aaaccgagtc ttaactgggc gttaagttgc 660
 40 agggatataga cccgaaaccc ggtgatctag ccatgggcag gttgaagggt gggtaacact 720
 41 aactggagga ccgaaccgac taatgttgaa aaattagcgg atgacttgtg gctgggggtg 780
 42 aaaggccaat caaacggga gatagctggt tctccccgaa agctatttag gtagcgctc 840
 43 gtgaattcat ctccgggggt agagcactgt ttcggcaagg gggctatccc gacttaccaa 900
 44 cccgatgcaa actgcgaata ccggagaatg ttatcacggg agacacacgg cgggtgctaa 960
 45 cgtccgctgt gaagaggga acaaccaga ccgccagcta aggtcccaaa gtcattggtta 1020
 46 agtgggaaac gatgtgggaa ggcccagaca gccaggatgt tggcttagaa gcagccatca 1080
 47 tttaaagaaa gcgtaatagc tcaactggtcg agtcggcctg cgcggaagat gtaacggggc 1140
 48 taaaccatgc accgaagctg cggcagcgac actatgtgtt gttgggtagg ggagcgttct 1200
 49 gtaagcctgt gaaggtgtgc tgtgagcat gctggaggta tcagaagtgc gaatgctgac 1260
 50 ataagtaacg ataaagcggg tgaaaagccc gctcgccgga agaccaaggg ttcctgtcca 1320
 51 acgttaatcg gggcaggggt agtcgacccc taaggcgagg ccgaaaggcg tagtcgatgg 1380
 52 gaaacagggt aatattcctg tacttgggtg tactgcgaag gggggacgga gaaggctatg 1440
 53 ttggccgggc gacggtgtgc ccggtttaag cgtgtaggct ggttttccag gcaaatccgg 1500
 54 aaaatcaagg ctgaggcgtg atgacgaggc actacggtgc tgaagcaaca aatgccctgc 1560

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55 ttccaggaaa agcctctaag catcaggtaa catcaaatcg taccceaaac cgacacaggt 1620
56 ggtcaggtag agaataccaa ggcgcttgag agaactcggg tgaaggaaact aggcaaaatg 1680
57 gtgccgtaac ttcgggagaa ggcacgctga tatgtagggtg aagcgacttg ctcgtggagc 1740
58 tgaaatcagt cgaagatacc agctggctgc aactgtttat taaaaacaca gcactgtgca 1800
59 aacacgaaag tggacgtata cggtgtgacg cctgcccggt gccggaaggt taattgatgg 1860
60 ggtagccgc aaggcgaagc tcttgatcga agccccggta aacggcggcc gtaactataa 1920
61 cggtcctaag gtacgaaat tccttgctcg gtaagttccg acctgcacga atggcgtaat 1980
62 gatggccagg ctgtctccac ccgagactca gtgaaattga actcgtctgt aagatgcagt 2040
63 gtaccgcgg caagacggaa agaccccggt aacctttact atagcttgac actgaacatt 2100
64 gacccctgat gtgtaggata ggtgggaggg tttgaagtgt ggacgccagt ctgcatggag 2160
65 ccgacctga aataccacc tttaatgttt gatgttctaa cgttgaccg taatccgggt 2220
66 tgcggacagt gtctggtggg tagtttgact ggggcgggtct cctcctaaag agtaacggag 2280
67 gagcacgaag gttggctaatt cctggtcgga catcaggagg ttagtgcaat ggcataagcc 2340
68 agcttgactg cgagcgtgac ggcgcgagca ggtgcgaaag caggtcatag tgatccggtg 2400
69 gttctgaatg gaagggccat cgctcaacgg ataaaaggta ctccggggat aacaggctga 2460
70 taccgcccga gagttcatat cgacggcggt gtttgccacc tcgatgtcgg ctcatcacat 2520
71 cctggggctg aagtaggtcc caagggtatg gctgttcgcc atttaaagtg gtacgcgagc 2580
72 tgggtttaga acgtcgtgag acagttcggg ccctatctgc cgtgggcgct ggagaactga 2640
73 ggggggctgc tcctagtacg agaggaccgg agtggaacga tcaactggtg tcgggttgct 2700
74 atgccaatgg cactgcccgg tagctaaatg cggaagagat aagtgtctga agcatctaag 2760
75 cacgaaactt gccccgagat gagttctccc tgactccttg agagtcctga aggaacgttg 2820
76 aagacgacga cgttgatagg ccgggtgtgt aagcgcagcg atgcgttgag ctaaccggta 2880
77 ctaatgaacc gtgaggttta accttacaac gccgaaggtg ttttgccgga ttgagagaag 2940
78 attttcagcc tgatacagat taaatcagaa cgcagaagcg gtctgataaa acagaatttg 3000
79 cctggcgcca gtacgcgggt ggtcccaact gaccccatgc cgaactcaga agtgaaacgc 3060
80 cgtacgccg atggtagtgt ggggtctcct catgcgagag tagggaactg ccaggcat 3118
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84 <211> LENGTH: 20
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of the artificial sequence: derived
90 from genera of enterobacteria
92 <400> SEQUENCE: 2
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96 <210> SEQ ID NO: 3
97 <211> LENGTH: 26
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Description of the artificial sequence: derived
103 from genera of enterobacteria
105 <400> SEQUENCE: 3
106 ctgaaagcat ctaagcgcga aacttg 26
109 <210> SEQ ID NO: 4
110 <211> LENGTH: 26
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:

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115 <223> OTHER INFORMATION: Description of the artificial sequence: derived
116     from genera of enterobacteria
118 <400> SEQUENCE: 4
119 ctgaaagcat ctaagcggga aacttg                                26
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 26
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of the artificial sequence: derived
129     from genera of enterobacteria
131 <400> SEQUENCE: 5
132 ctgaaagcat ctaagcacga aacttg                                26
135 <210> SEQ ID NO: 6
136 <211> LENGTH: 26
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of the artificial sequence: derived
142     from genera of enterobacteria
144 <400> SEQUENCE: 6
145 ctgaaagcat ctaagcagga aacttg                                26
148 <210> SEQ ID NO: 7
149 <211> LENGTH: 25
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of the artificial sequence: derived
155     from genera of enterobacteria
157 <400> SEQUENCE: 7
158 gggaggactc atctcgaggc aagtt                                25
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 25
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of the artificial sequence: derived
168     from genera of enterobacteria
170 <400> SEQUENCE: 8
171 gggaggactc atctcggggc aagtt                                25
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 25
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of the artificial sequence: derived
181     from genera of enterobacteria
183 <400> SEQUENCE: 9
184 gggaggactc atctcaaggc aagtt                                25

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Input Set : A:\216180.ST25.txt

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187 <210> SEQ ID NO: 10
188 <211> LENGTH: 25
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of the artificial sequence: derived
194 from genera of enterobacteria
196 <400> SEQUENCE: 10
197 gggaggactc atctcagggc aagtt 25
200 <210> SEQ ID NO: 11
201 <211> LENGTH: 25
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of the artificial sequence: derived
207 from genera of enterobacteria
209 <400> SEQUENCE: 11
210 gggaggactc atcttgaggc aagtt 25
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 25
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of the artificial sequence: derived
220 from genera of enterobacteria
222 <400> SEQUENCE: 12
223 gggaggactc atcttggggc aagtt 25
226 <210> SEQ ID NO: 13
227 <211> LENGTH: 25
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of the artificial sequence: derived
233 from genera of enterobacteria
235 <400> SEQUENCE: 13
236 gggaggactc atcttaaggc aagtt 25
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 25
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of the artificial sequence: derived
246 from genera of enterobacteria
248 <400> SEQUENCE: 14
249 gggaggactc atcttagggc aagtt 25
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial sequence

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257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of the artificial sequence: derived
259 from genera of enterobacteria
261 <400> SEQUENCE: 15
262 gggagaactc atctcgaggc aagtt 25
265 <210> SEQ ID NO: 16
266 <211> LENGTH: 25
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of the artificial sequence: derived
272 from genera of enterobacteria
274 <400> SEQUENCE: 16
275 gggagaactc atctcggggc aagtt 25
278 <210> SEQ ID NO: 17
279 <211> LENGTH: 25
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Description of the artificial sequence: derived
285 from genera of enterobacteria
287 <400> SEQUENCE: 17
288 gggagaactc atctcaaggc aagtt 25
291 <210> SEQ ID NO: 18
292 <211> LENGTH: 25
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of the artificial sequence: derived
298 from genera of enterobacteria
300 <400> SEQUENCE: 18
301 gggagaactc atctcagggc aagtt 25
304 <210> SEQ ID NO: 19
305 <211> LENGTH: 25
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of the artificial sequence: derived
311 from genera of enterobacteria
313 <400> SEQUENCE: 19
314 gggagaactc atcttgaggc aagtt 25
317 <210> SEQ ID NO: 20
318 <211> LENGTH: 25
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: Description of the artificial sequence: derived
324 from genera of enterobacteria
326 <400> SEQUENCE: 20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/088,966

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TIME: 14:10:12

Input Set : A:\216180.ST25.txt
Output Set: N:\CRF3\08062002\J088966.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:108; N Pos. 29,61,179
Seq#:110; N Pos. 55
Seq#:118; N Pos. 95
Seq#:123; N Pos. 20
Seq#:129; N Pos. 55,112
Seq#:165; N Pos. 14,15,16
Seq#:205; N Pos. 28
Seq#:218; N Pos. 18
Seq#:244; N Pos. 14
Seq#:245; N Pos. 14
Seq#:247; N Pos. 34
Seq#:257; N Pos. 21
Seq#:281; N Pos. 36
Seq#:353; N Pos. 18,20
Seq#:370; N Pos. 37
Seq#:445; N Pos. 202
Seq#:462; N Pos. 74,82
Seq#:525; N Pos. 114

VERIFICATION SUMMARY

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Input Set : A:\216180.ST25.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:1360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0

L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:60

L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:120

L:1396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110 after pos.:0

L:1486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:60

L:1542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0

L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0

L:1618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:60

L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165 after pos.:0

L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0

L:2558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:0

L:2806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0

L:2821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0

L:2845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247 after pos.:0

L:2949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:257 after pos.:0

L:3179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281 after pos.:0

L:3873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353 after pos.:0

L:4040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370 after pos.:0

L:4786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:445 after pos.:180

L:4984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:462 after pos.:60

L:5626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:525 after pos.:60